



# Bachelor of Arts

## BIOLOGY: Pre-Professional Studies Emphasis

**Advisement Form 2010-2011**

Name \_\_\_\_\_ ID \_\_\_\_\_

Lower Division Major Requirements (8 units)	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE & Comments
BIOL 200 Principles of Organismal and Population Biology	4						GE: B2
BIOL 201 Principles of Cell and Molecular Biology	4						Prereq: CHEM 105 or 121; GE: B2
<b>Required Supporting Courses (27-28 units)</b>							
<b>Chemistry (16 units)</b> <i>A year-long organic chemistry sequence with laboratory taken at a community college may be accepted in lieu of CHEM 311, 312, 314, and 315.</i>							
CHEM 121 General Chemistry I	4						Prereq: Passing score on the Chemistry Placement Exam or CHEM 105; GE: B1
CHEM 122 General Chemistry II	4						Prereq: CHEM 121 with a C or better; GE: B1
CHEM 311 Organic Chemistry I	3						Prereq: CHEM 122 with a C or better
CHEM 312 Organic Chemistry I Lab	1						Prereq: CHEM 311 (or taken concurrently) with a C or better
CHEM 314 Organic Chemistry II	3						Prereq: CHEM 311 with a C or better
CHEM 315 Organic Chemistry II Lab	1						Prereq: CHEM 311, 312, & 314 (or taken concurrently) with C's or better
<b>Mathematics and Statistics (3-4 units)</b> <i>Select one of the following:</i> (Check with professional schools or pre-professional advisor for specific requirements in this category)							
BIOL 203 Quantitative Methods for Biology	3						Prereq: A passing score ELM or MATH 105 or equivalent; GE: B3 or B4
MATH 150 Calculus I	4						Prereq: A passing score on the Calculus Placement Exam or MATH 105; GE: B3
<b>Physics (8 units)</b>							
PHYS 100 Introduction to Physics I	4						GE: B1
PHYS 101 Introduction to Physics II	4						Prereq: PHYS 100; GE: B1
<b>Upper Division Requirements in the Major (32 units)</b>							
<b>Required Biology Courses (21-22 Units)</b>							
BIOL 300 Cell Biology	4						Prereq: BIOL 201 with a C or better & CHEM 122
BIOL 302 Genetics	4						Prereq: BIOL 201 with a C or better & CHEM 122
BIOL 304 Comparative Animal Physiology	3						Prereq: BIOL 200 & 201
BIOL 400 Molecular Biology	4						Prereq: BIOL 300 or 302 with a C or better
BIOL 303 Evolutionary Biology	3						Prereq: BIOL 200 & 201
(or) BIOL 433 Ecology and the Environment	4						Prereq: BIOL 200; GE: B2, UDIGE
BIOL 499 Senior Capstone in Biology	3						Prereq: Consent of instructor

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<b>Electives in Biology (10-11 units)</b> <i>Select at least 10-11 units from 300 and 400 level biology courses, one of which must be a lab course. (Biology courses numbered 326 to 345 are <u>not</u> counted towards the 10-11 units of electives). No more than <u>two</u> units taken from BIOL 492, 494, 497 may count towards the 10-11 units of electives.</i>							

**Additional University Graduation Requirements**

**9 Units Upper Division Interdisciplinary GE (UDIGE) at CSUCI (courses numbered 330-349 or 430-449)**

*Upper division standing or instructor consent required for these courses*

Course 1 \_\_\_\_\_ Course 2 \_\_\_\_\_ Course 3 \_\_\_\_\_  
(may choose BIOL 431, 432, 433 or 434) (outside major)

**American Institutions Requirements:** US History \_\_\_\_\_ State and Local Gov't \_\_\_\_\_  
(Choose from HIST 270, 271, 272, 275 or 350) (Choose POLS 150)

*Students must receive a grade of C or better in the Language and Multicultural Requirements*

**Language Requirement:** GE C3a \_\_\_\_\_  
(one semester of college level language)

**Multicultural Requirement:** GE C3b \_\_\_\_\_

*Minimum total units to graduate: 120 of which 40 must be upper division. Please see catalog for a complete list of graduation requirements.*

Advisor \_\_\_\_\_ Date Completed: \_\_\_\_\_

Advisor Comments: \_\_\_\_\_